

ABSTRACT

The invention relates to a catalyst system for the selective trimerisation of olefins, which system is based on a titanium complex 5 of formula $(Cp-B(R)_nAr)TiR_3^{l_1}$, wherein:
Cp is a cyclopentadienyl type ligand, optionally substituted,
B is a bridging group, based on a single atom selected from the groups 13 to 16 inclusive of the Periodic System,
Ar is a aromatic group, optionally substituted,
10 R is, independently, hydrogen, or a hydrocarbon residue,optionally being substituted and optionally containing heteroatoms, or groups R and B are joined together to form a ring,
n is an integer equal to the (valency of B minus 2), and
R^l is a mono-anionic group, and further comprises
15 an activator. The present catalyst system obviates the use of toxic chromium compounds.